

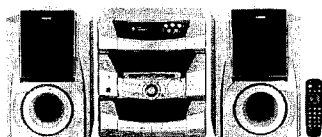


**SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA**

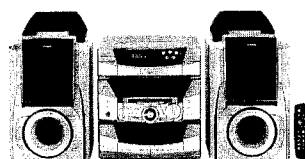
THOMSON **ALTIMA 3600**
ALTIMA 3800

Version (PC*): A

*PC: The version code is indicated either in the battery compartment or on the back of the unit - ce code version est indiqué dans le compartiment à piles ou au dos de l'appareil - PC: Version des Geräts wird im Batteriefach oder auf der Rückseite angegeben - il codice della versione è indicato nello scompartimento delle batterie o sul retro dell'apparecchio - el código de la versión está indicado en el compartimento de las pilas o en la parte trasera del aparato.



ALTIMA 3600



ALTIMA 3800

**Technical data - Caractéristiques principales
Technische Daten - Dati tecnici - Características del aparato**

Type of set : Cassette radio recorder / compact disc Type d'appareil : Combiné radio cassette / CD Geräteart : CD-Radio Cassetten Portable Tipo d'apparecchio : Insieme radio cassette / CD Tipo de aparato : Radio cassette / CD		 8,9 kg	
Power supply : Alimentation : 230 V ~ 50 Hz Stromversorgung : Alimentazione : Alimentación :		Nominal output power : Puissance nominale de sortie : main 2 x 15 W (rms) Nennausgangsleistung : sub-woofer 2 x 55 W (rms) Potenza nominale di uscita : Potencia nominal de salida :	
	FM - MF : 87,5 - 108 MHz MW - PO : 522 - 1611 kHz LW - GO : 150 - 283 kHz	Sensitivity : FM - MF : 8 µV (S/N = 30 dB) Sensibilité : MW - PO : 800 µV/m (S/N = 20 dB) Empfindlichkeit : LW - GO : 2000 µV/m (S/N = 20 dB) Sensibilità : Sensibilidad :	
	Frequency response : Courbe de réponse : 125 Hz - 8 kHz Frequenzgang : (-5 dB) Curva di risposta : Curva de respuesta :	Signal to noise ratio : Rapport signal / bruit : 44 dB Geräuschspannungsabstand : Rapporto segnale / disturbo : Relación señal / ruido :	
	Wow and flutter : Fluctuations : 0,3 % Gleichlauf : Fluttuazioni : Fluctuaciones :	4,76 cm/S C60 : 170 S	
	Disc rotation speed : Vitesse de rotation du disque : 200 - 500 tr/m CD-Drehgeschwindigkeit : Velocità di rotazione del disco : Velocidad de rotación del disco :	Frequency response : Courbe de réponse : f = 40 Hz - 20 kHz (-3 dB) Frequenzgang : Curva di risposta : Curva de respuesta :	
DAD	Total harmonic distortion : Distorsion harmonique : 1 % (f = 1 kHz) Klirrfaktor : Distorsión armónica : Distorsione armonica :	Signal to noise ratio : Rapport signal / bruit : 65 dB Geräuschspannungsabstand : Rapporto segnale / disturbo : Relación señal / ruido :	



WARNING : Before servicing this chassis please read the safety recommendations.
ATTENTION : Avant toute intervention sur ce châssis, lire les recommandations de sécurité.
ACHTUNG : Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.
ATTENZIONE : Prima di intervenire sullo chassis, leggere le norme di sicurezza.
IMPORTANTE : Antes de cualquier intervención, leer las recomendaciones de seguridad.

Code : 351 233 40 - 0800 / 2,9 M - CRKD 2523 / CRKD 2525 Print. MALGOGNE/SAILLLOUR - AVRILLE



CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
LASER KLASSE 1
APARATO CON LASER DE CLASE 1
APPARECCHIO CON LASER DI CLASSE 1

DANGER :

Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

ATTENTION :

Le rayon laser est invisible. Eviter l'exposition directe lors de la maintenance.

VORSICHT BEI REPARATUREN :

Bei geöffneter Schublade und Defekt der Sicherheitsvorrichtungen besteht die Gefahr unsichtbaren Laserlichts. Niemals direkt in den Laserstrahl sehen.

ATTENZIONE :

Il raggio laser è invisibile. Evitare l'esposizione diretta durante la manutenzione.

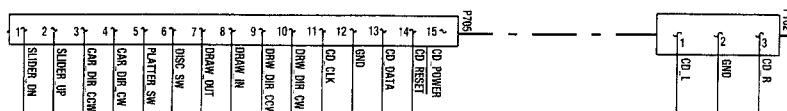
IMPORTANTE :

El rayo laser es invisible. Evitar la exposición directa en el momento del mantenimiento.

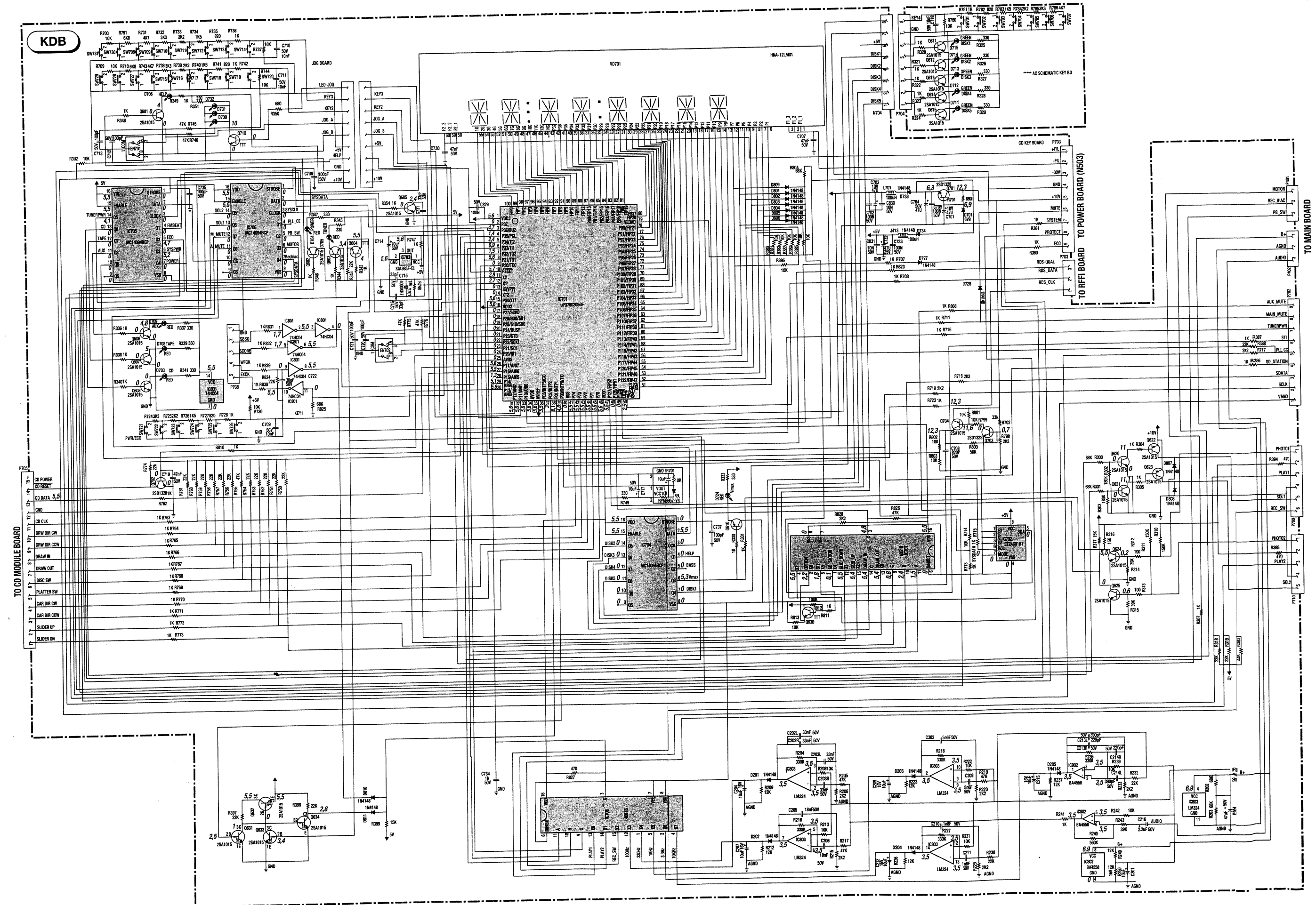
**DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL -
SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE -
ESQUEMA DEL TRATAMIENTO DIGITAL**

The complete Digital Processing Module is available from A. S. S. under Part Number :
En SAV, l'ensemble du module traitement digital est géré sous le code :
Die Service Bestell-Nr. für das Modul "Digital Processing kompl." ist :
Il codice del modulo completo di elaborazione digitale è :
En postventa, el modulo completo tratamiento digital lleva el código :

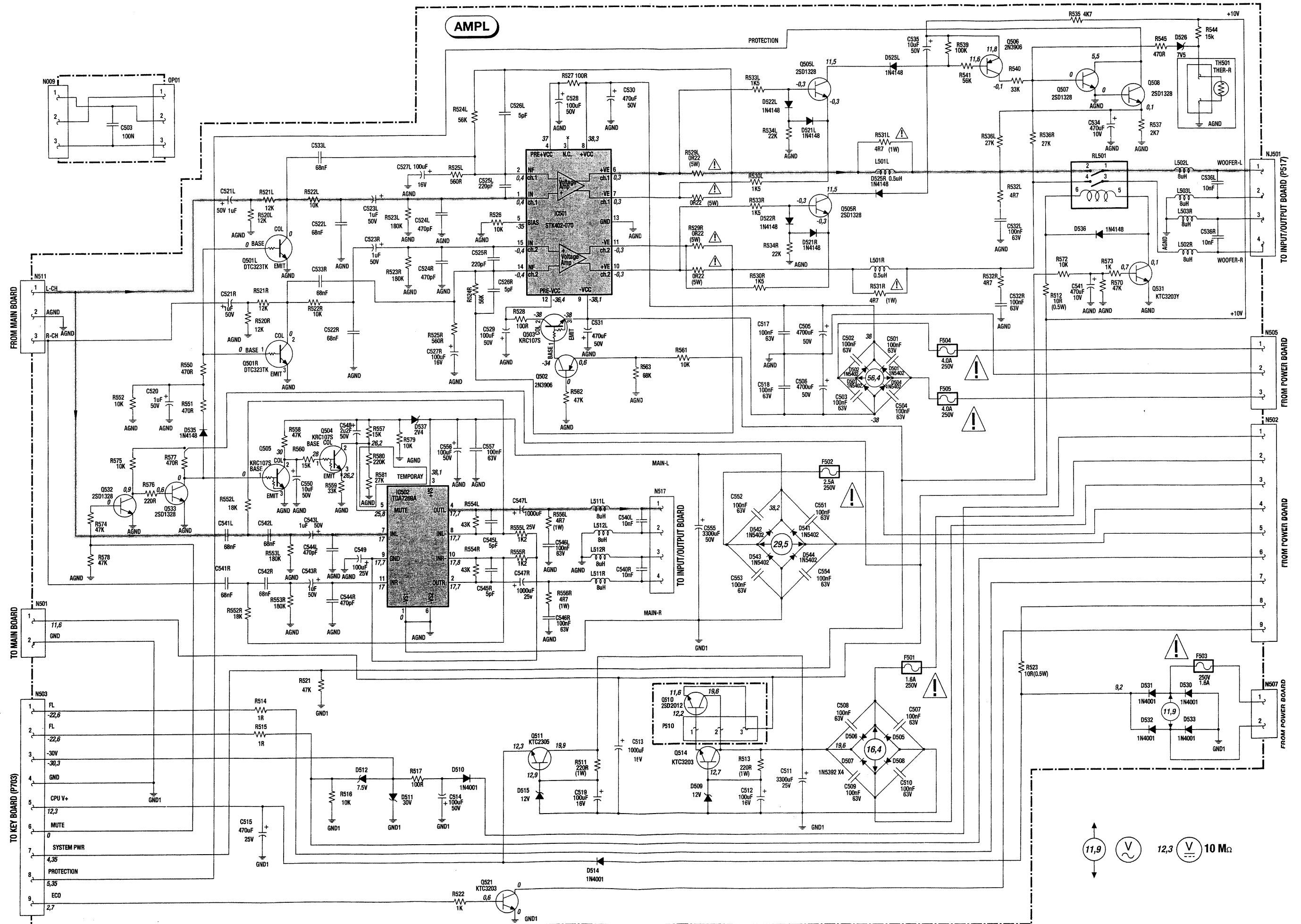
106 694 10



CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - SCHALTBILD BEDIENTEIL / ANZEIGE - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / INDICADOR



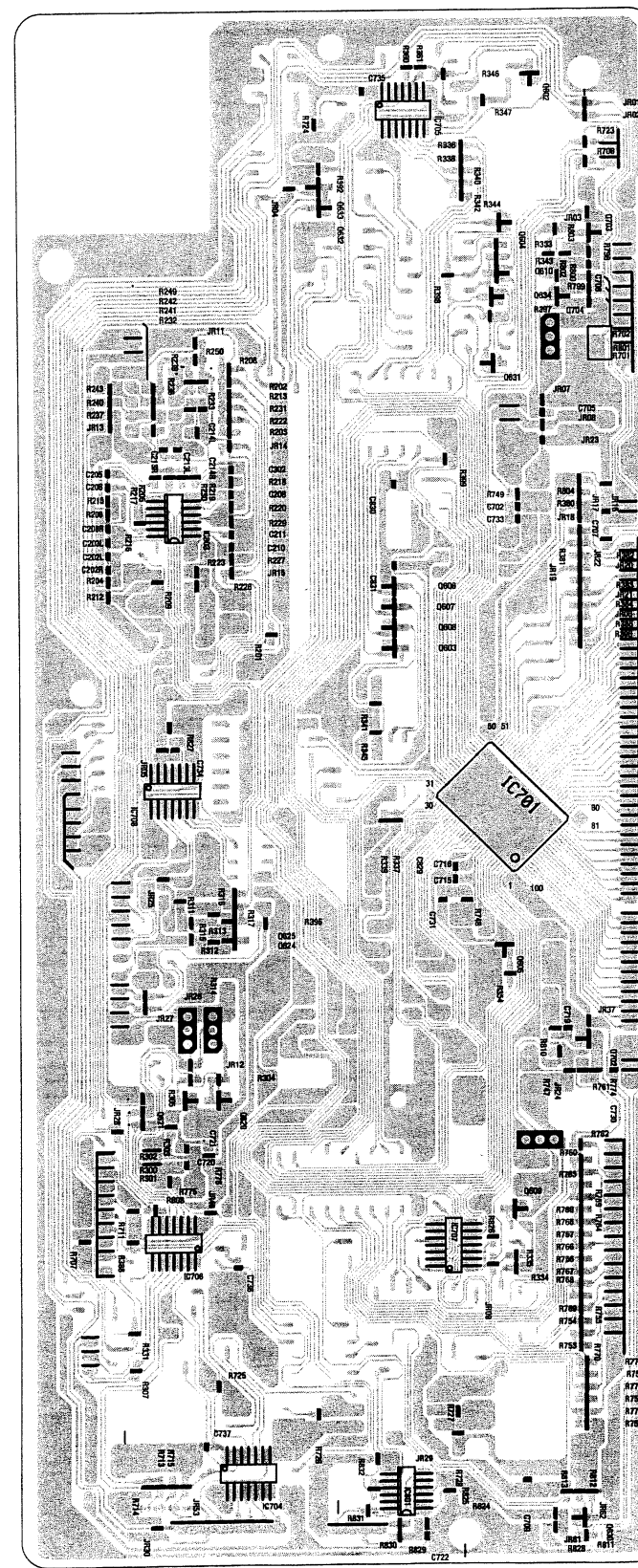
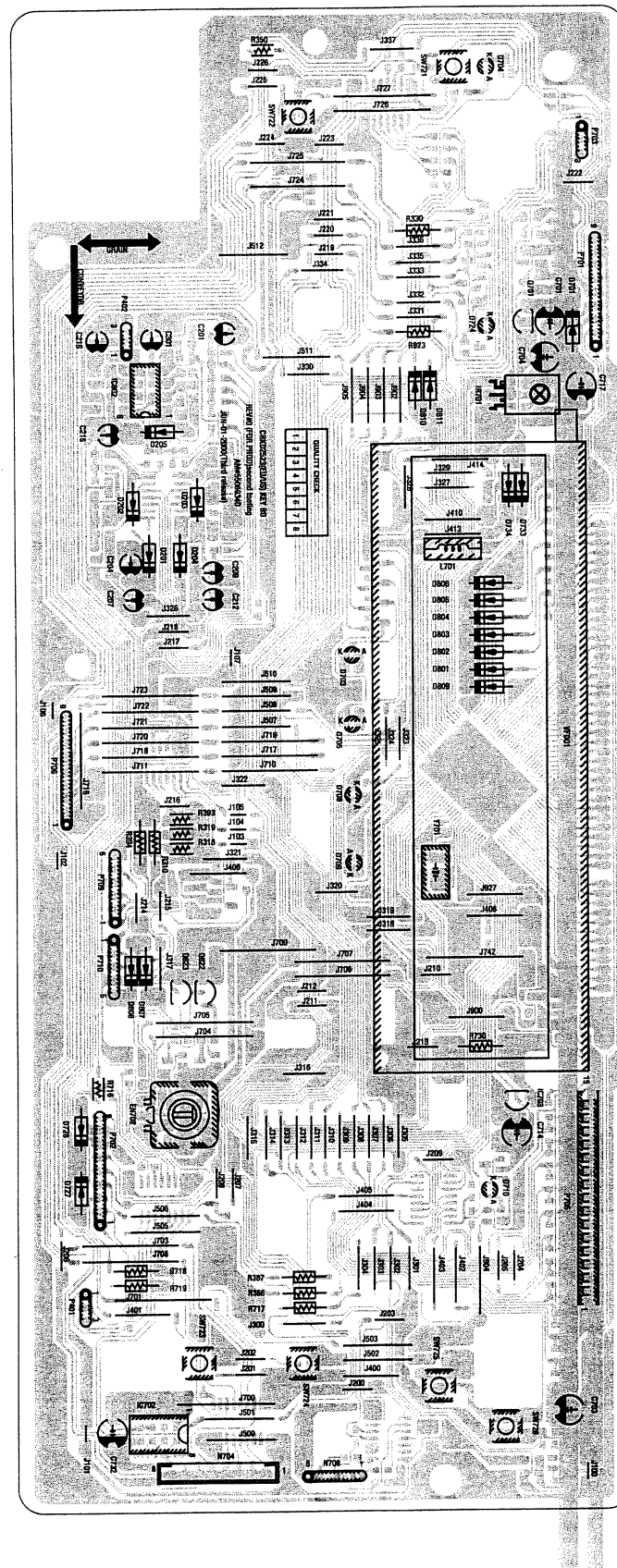
AMPLIFIER AND POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR ET DE L'ALIMENTATION - SCHALTBILD ENDVERSTÄRKER UND NETZTEIL -
SCHEMA DELL'AMPLIFICATORE E DELL'ALIMENTAZIONE - ESQUEMA DEL AMPLIFICADOR Y DE LA ALIMENTACIÓN



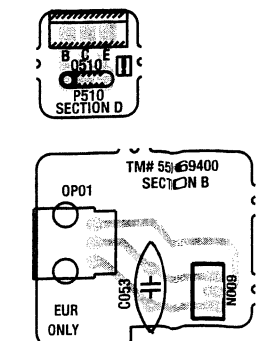
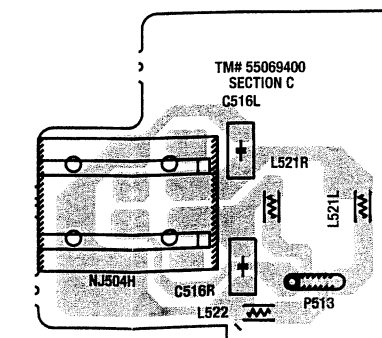
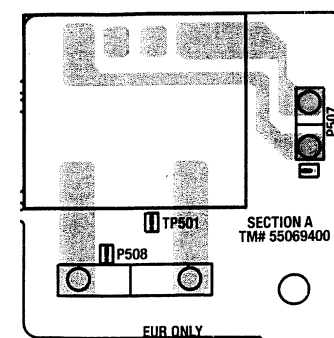
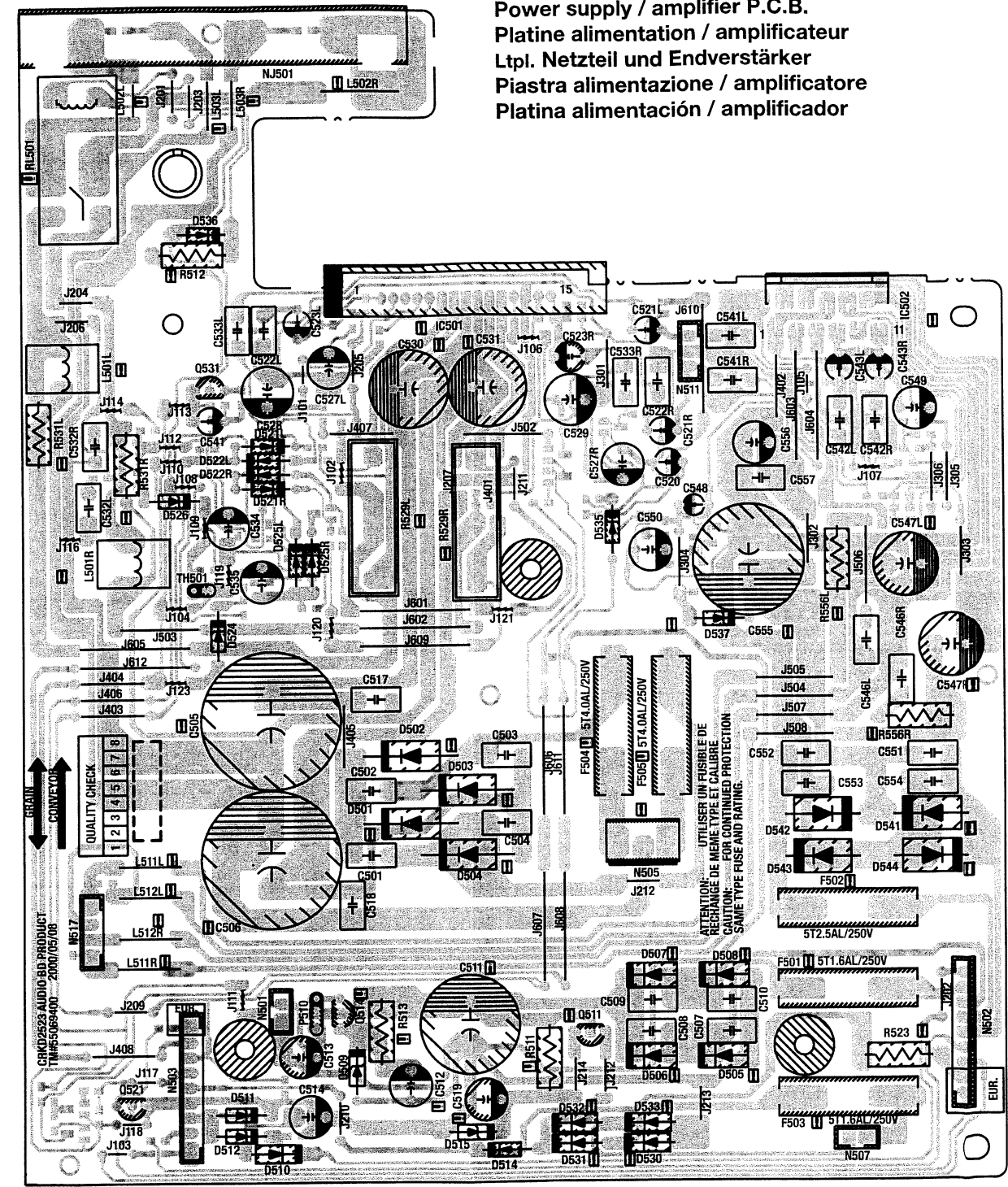
Controls / display P.C.B.
Platine commandes / afficheurs
Ltpl. Bedienteil / Anzeige
Piastra comandi / indicatore
Platina de mandos / indicadores

160
KIA 7042AP

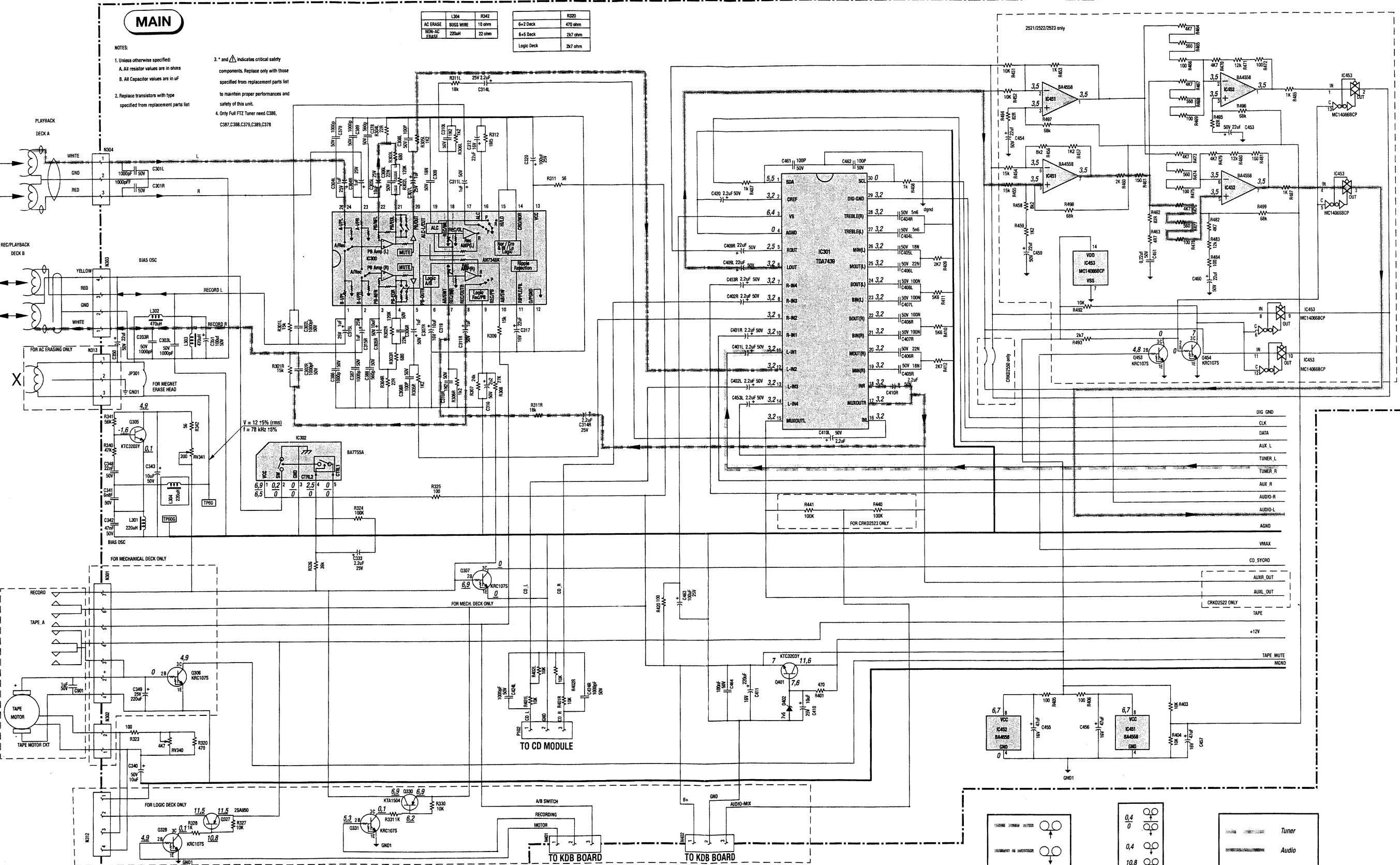
1 14
7 8
KTA 1266Y
KTC 3203Y
2SA 966



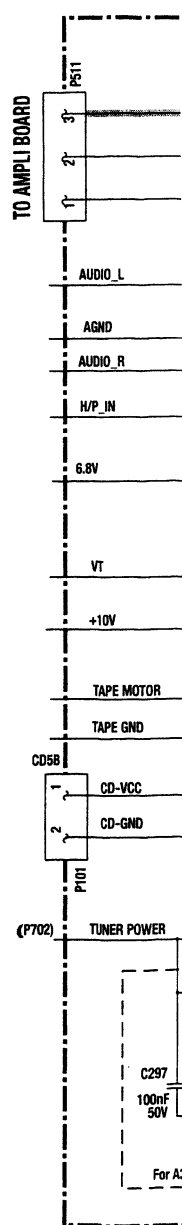
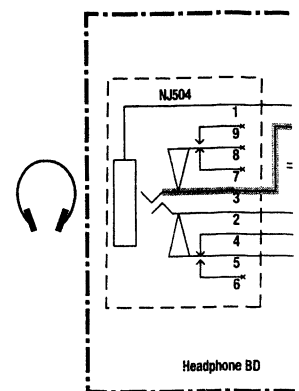
Power supply / amplifier P.C.B.
Platine alimentation / amplificateur
Ltpl. Netzteil und Endverstärker
Piastra alimentazione / amplificatore
Platina alimentación / amplificador



MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTPLATINE - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL

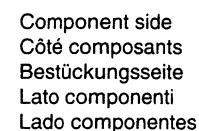


**HEADPHONE-JACK
SCHEMA DE LA PL
KOPFHÖRERBUCH
SCHEMA DELLA PI
ESQUEMA DE LA P**



Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

Main P.C.B.
Platine principale
Hauptplatine
Piastra principale
Platina principal

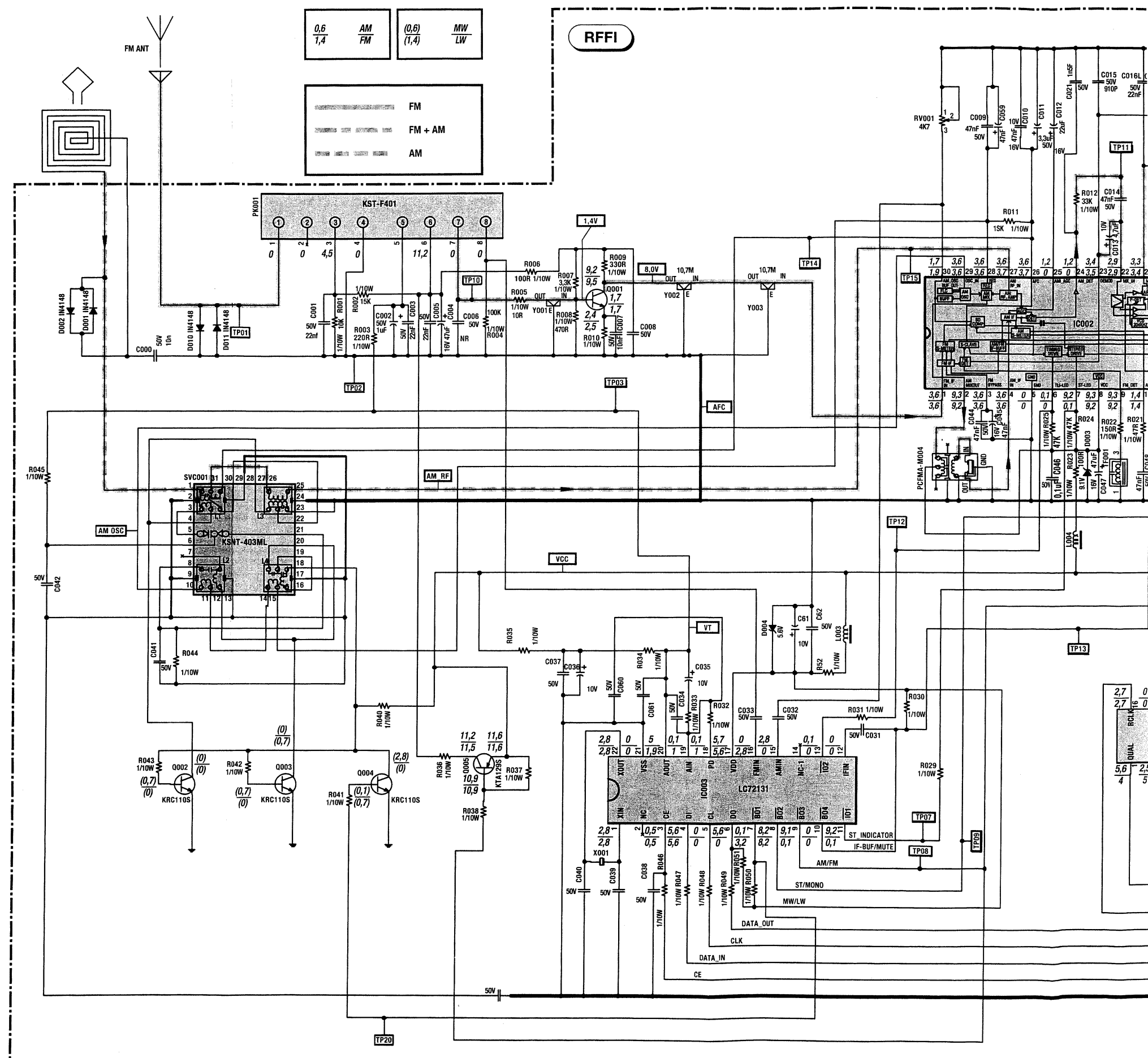
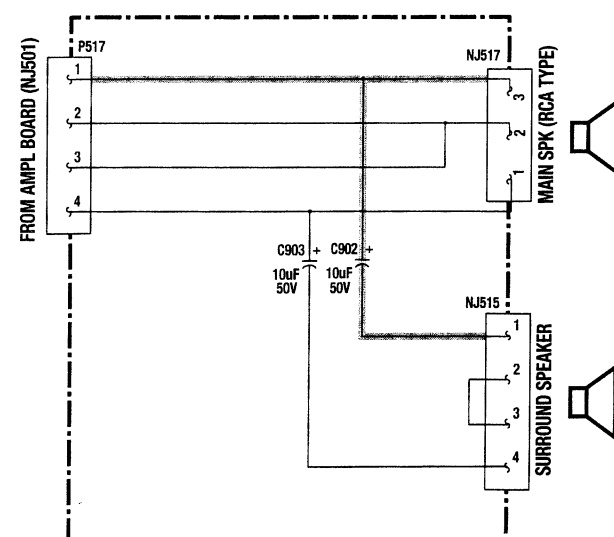


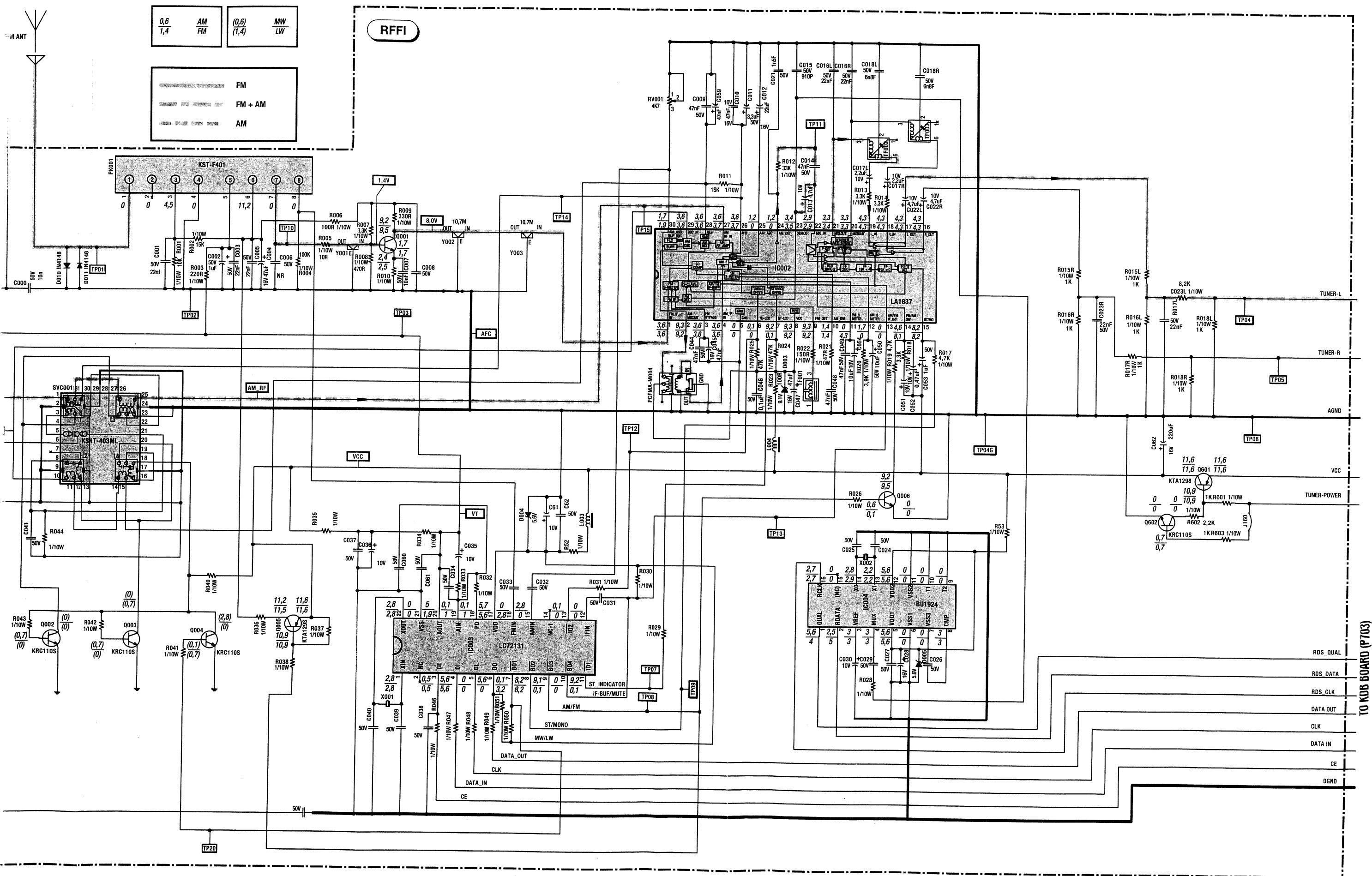
Main P.C.B.
Platine principale
Hauptplatine
Piastra principale
Platina principal

The schematic diagram illustrates the power supply and audio amplifier circuit for the A3200G Tuner. The power supply section, located at the bottom, includes a transformer (T1) with a primary winding connected to the AC line and a secondary winding providing 0-250V. The secondary is connected to a bridge rectifier (BR1) and a filter capacitor (C297, 100µF 50V). The rectified output is connected to a 250V 25V capacitor (C298) and a 220µF 11V capacitor (C299). The output of the filter is connected to the +VCC pin of the IC601 (A3200G) and the +VCC pin of the IC602 (A3200G). The ground connection is connected to the GND pin of the IC601 and the GND pin of the IC602. The power supply is labeled "For A3200G Tuner power only".










The audio amplifier section, located at the top, includes two IC601 (A3200G) integrated circuits. The first IC601 is configured as a pre-amplifier, with its input connected to the H/P_IN pin of the P101 connector. Its output is connected to the input of the second IC601, which is configured as a power amplifier. The power amplifier's output is connected to the speaker terminals (SPEAKER). The circuit includes various resistors (R1 through R15) and capacitors (C1 through C15) for biasing and filtering. The power supply for the amplifier is derived from the +10V line of the P101 connector. The ground connection is connected to the GND pin of the IC601 and the GND pin of the IC602.



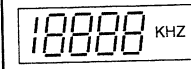



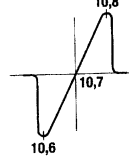
RF / FI SCHEMATIC DIAGRAM - SCHEMA HF / FI - SCHALTBILD HF / ZF - SCHEMA HF / FI - ESQUEMA RF / FI















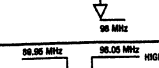
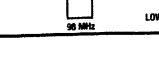


ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

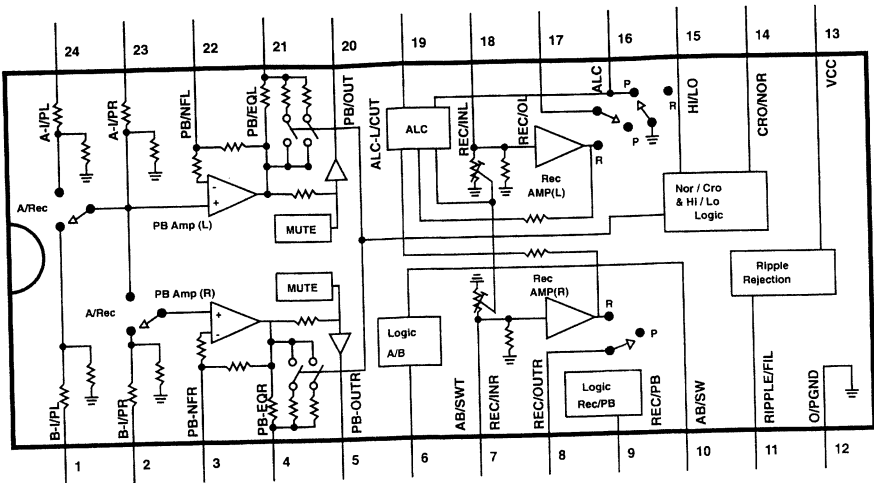
AM alignment						
			f			
Osc	1	LW	150 kHz	150 kHz		TP03 V = 1,8V ±0,4V
	2	LW	283 kHz	283 kHz		TP03 V = 7,5V ±0,5V
	3	MW	522 kHz	522 kHz		TP03 V = 1,2V ±0,4V
	4	MW	1611 kHz	1611 kHz		TP03 V = 7,5V ±0,5V

FM alignment						
			f			
VT	1		87,5 MHz	87,5 MHz		TP3 V = 1,3V ±0,2V
	2		108,7 MHz	108,7 MHz		TP3 7,2 < V < 9,0
IF	3	 Ve = 10 mV	10,7 MHz	10,7 MHz	TF001 	TP11

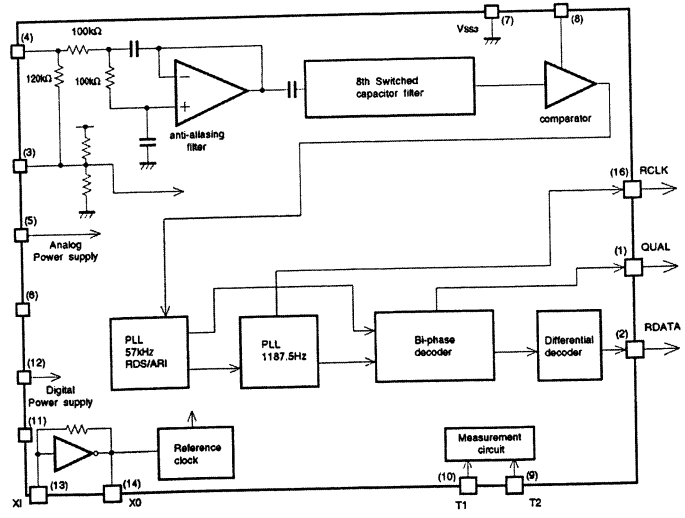
Decoder						
			f			
	1		Lch	98 MHz	98 MHz	TF003 Rich min
	2		Rch	98 MHz	98 MHz	TF002 Lch min

Scan stop						
			f			
FM	1	25dBf	98 MHz	98 MHz	TV001 	TP12
	2	25dBf	89,95 kHz			TP12

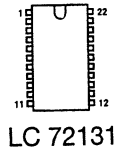
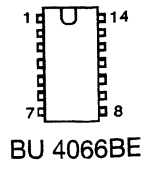
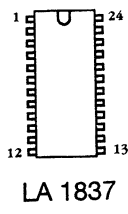
IC 300 AN 7348K



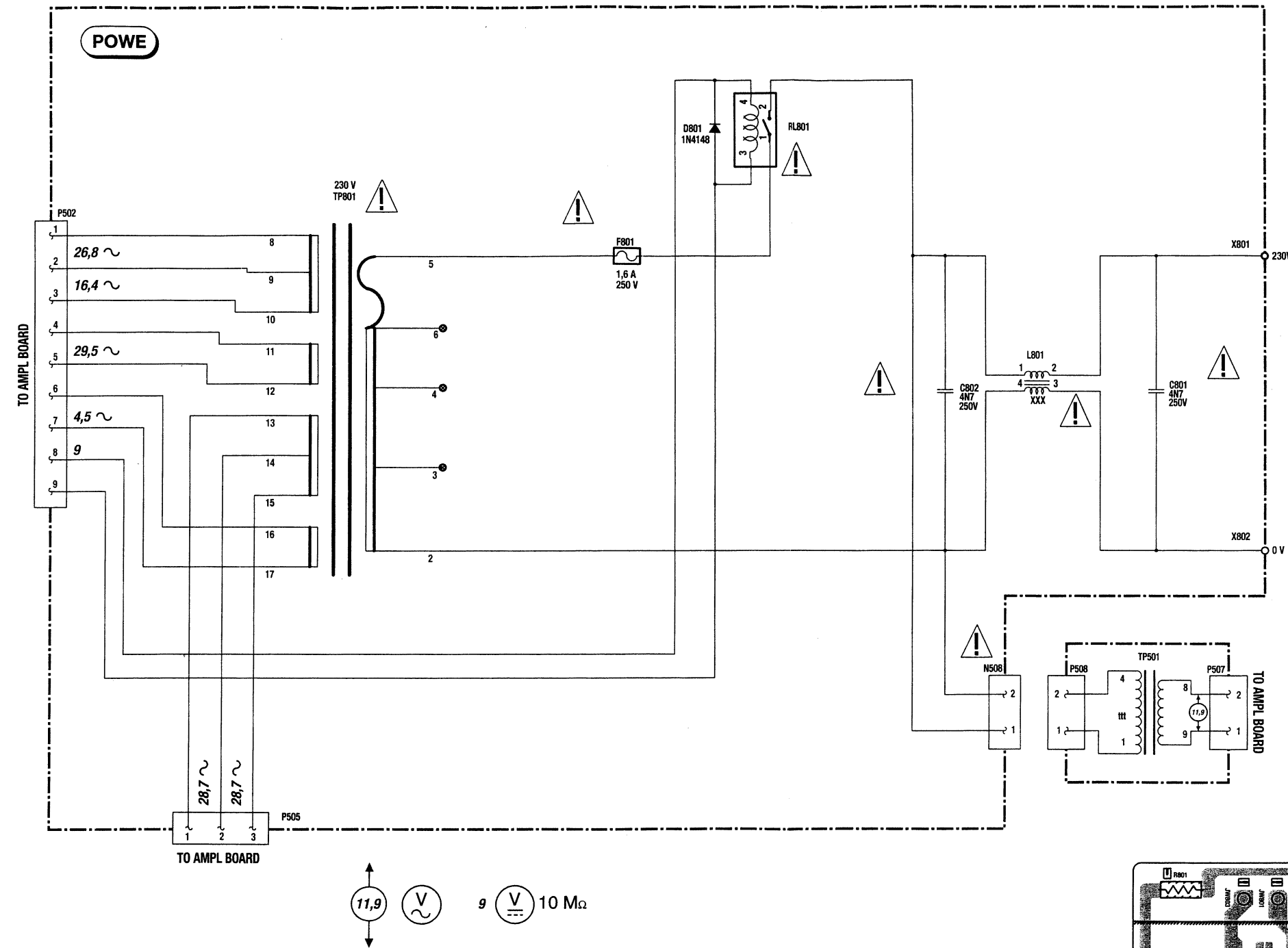
IC 004 BU 1924



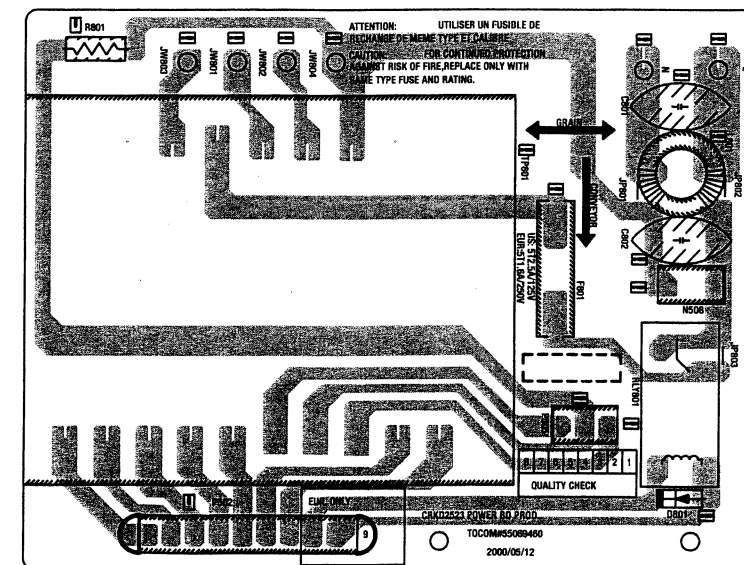
KTC 3203Y
KTA 1505GR
2SA 1266Y
KTC 3198Y



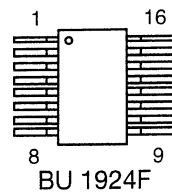
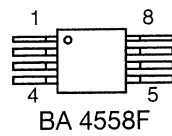
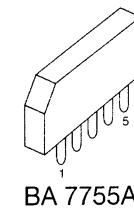
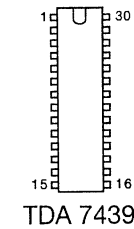
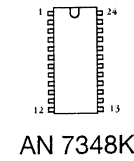
POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION - SCHALTBILD NETZTEIL - SCHEMA DELL'ALIMENTAZIONE - ESQUEMA DE LA ALIMENTACIÓN



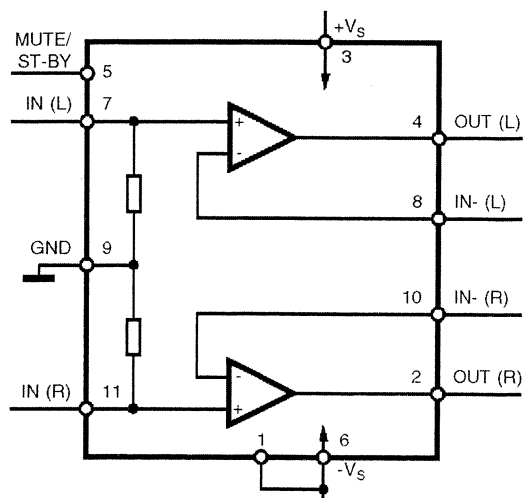
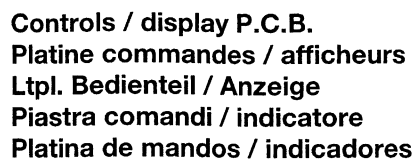
Power supply P.C.B.
Platine alimentation
Ltpl. Netzteil
Piastra alimentazione
Platina alimentación



Main P.C.B.
Platine principale
Hauptplatine
Piastra principale
Platina principal



Solder side
Côté cuivre
Lötseite
Lato saldature
Lado del cobre



IC 301 TDA 7439

